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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 9319A-1147/NP U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/535575
INTERNATIONAL APPLICATION NO. PCT/JP2003/016823	INTERNATIONAL FILING DATE 25 December 2003 (25.12.2003)	PRIORITY DATE CLAIMED 27 December 2002 (27.12.2002)
TITLE OF INVENTION A SAWTOOTH WAVE GENERATING APPARATUS, A METHOD OF GENERATING SAWTOOTH WAVE, A CONSTANT CURRENT CIRCUIT, AND A METHOD OF ADJUSTING AMOUNT OF CURRENT FROM THE SAME		
APPLICANT(S) FOR DO/EO/US TAKEUCHI, Kesatoshi		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

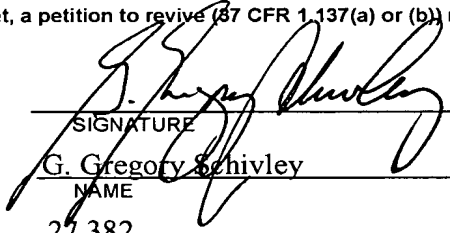
1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Express Mail Transmittal (EV 716 206 528 US); Formal Drawings (7 pgs); Form HDP-1449 citing 12 refs. (3 encl.) and ISR; Published Article 19 Amendment; Published Int'l Application WO 2004/062104 A2; Return Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/535575		INTERNATIONAL APPLICATION NO. PCT/JP2003/016823		ATTORNEY'S DOCKET NUMBER 9319A-1147/NP		
The following fees have been submitted				CALCULATIONS	PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee..... \$300				\$ 300.00		
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100 All other situations..... \$200				\$ 200.00		
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500				\$ 400.00		
TOTAL OF 21, 22 and 23 =				\$ 900.00		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE			
34 - 100 =	-66 /50 =		x \$250	\$ 0.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$ 0.00		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total claims	14 - 20 =	0	x \$ 50	\$ 0.00		
Independent claims	4 - 3 =	1	x \$200	\$ 200.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$ 0.00		
TOTAL OF ABOVE CALCULATIONS =				\$ 1,100.00		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				0.00		
SUBTOTAL =				\$ 1,100.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ 0.00		
TOTAL NATIONAL FEE =				\$ 1,100.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00		
TOTAL FEES ENCLOSED =				\$ 1,140.00		
				Amount to be refunded:	\$	
				Amount to be charged:	\$	
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>50-3213</u> in the amount of \$ <u>1,140.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-3213</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>						
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>						
<p>SEND ALL CORRESPONDENCE TO: G. Gregory Schivley HARNESS, DICKEY & PIERCE, P.L.C. P. O. Box 828 Bloomfield Hills, MI 48303 United States of America</p>						
				SIGNATURE  G. Gregory Schivley NAME		
				27,382 REGISTRATION NUMBER	<u>MAY 19, 2005</u>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Express Mail No.: EV 716 206 528 US

Date of Deposit: 19 May 2005

Application No.: Not yet assigned – National Phase of PCT/JP2003/0168123

International
Filing Date: 25 December 2003 (25.12.2003)

Applicant: Kesatoshi TAKEUCHI

Title: A SAWTOOTH WAVE GENERATING APPARATUS,
A METHOD OF GENERATING SAWTOOTH WAVE,
A CONSTANT CURRENT CIRCUIT, AND A
METHOD OF ADJUSTING AMOUNT OF CURRENT
FROM THE SAME

Attorney Docket: 9319A-1147/NP

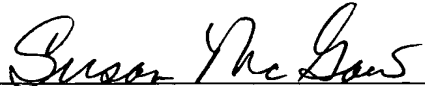
Mail Stop PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

EXPRESS MAIL TRANSMITTAL

The following papers are being deposited with the United States Postal Service Express Mail Post Office t Addressee on 19 May 2005 and addressed for receipt by the United States Patent and Trademark Office:

1. Express Mail Transmittal (Label No. EV 716 206 528 US);
2. Transmittal Letter to the US Designated/Elected/Office Concerning a Filing Under 35 USC 371 (2 pages, in duplicate);
3. Application Data Sheet (2 pages);
4. Signed Declaration and Power of Attorney (3 pages);
5. Formal Drawings showing Figs. 1 – 10 (7 pages);
6. Assignment Recordation Cover Sheet and Assignment (3 pages);
7. IDS with Form HDP-1449 citing 12 references (3 enclosed) and International Search Report;
8. Published Article 19 Amendment;
9. Published International Application WO 2004/062104 A2; and
10. Return Postcard.

HARNES, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600


Susan McGaw

msf
19 May 05